

Pre-Algebra Fluency

1. Solve the following one-step equation:  $y+2=7$

$$y = 5$$

2. Solve the following two-step equation:  $3x-9=9$

$$x = 6$$

3. Solve the following equation:  $4(y-5)=7$

$$y = \frac{27}{4}$$

4. Solve the following equation:  $5x-3=4x+6$

$$x = 9$$

5. Simplify the expression:  $5y+4x+3y+3y+8x$

$$11y + 12x$$

6. Solve the following equation:  $8y+4=3y-7$

$$y = -\frac{11}{5}$$

7. Solve the following two-step equation:  $7=4y-9$

$$y = 4$$

8. Simplify the expression :  $7y+6x+3y-7y+4x$

$$3y + 10x$$

9. Solve the following one-step equation:  $x-7=11$

$$x = 18$$

10. Solve the following equation :  $12=9(-5+6y)$

$$y = \frac{57}{54}$$